

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005)		ATTORNEY'S DOCKET NUMBER DNI-0025
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371		U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/553,931
INTERNATIONAL APPLICATION NO. PCT/US2004/013339	INTERNATIONAL FILING DATE 30 April 2004 (30.04.2004)	PRIORITY DATE CLAIMED 30 April 2003 (30.04.2003)
TITLE OF INVENTION TUBULAR SIGNAL TRANSMISSION DEVICE AND METHOD OF MANUFACTURE		
APPLICANT(S) FOR DO/EO/US James Bayliss; Ernest L. Gladden; Joseph W. Twarog, Jr.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<ol style="list-style-type: none"> 1. <input type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 11. <input type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. <input type="checkbox"/> A copy of the International Search Report (PCT/ISA/210). 		
Items 13 to 23 below concern document(s) or information included:		
<ol style="list-style-type: none"> 13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. <input type="checkbox"/> A FIRST preliminary amendment. 16. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 17. <input type="checkbox"/> A substitute specification. 18. <input type="checkbox"/> A power of attorney and/or change of address letter. 19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 22. <input type="checkbox"/> Express Mail Label No. 		

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.5) 10/553,931		INTERNATIONAL APPLICATION NO. PCT/US2004/013339		ATTORNEY'S DOCKET NUMBER DNI-0025																																																																																																																																																										
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<table border="1"> <thead> <tr> <th colspan="2">The following fees have been submitted:</th> <th colspan="2">CALCULATIONS</th> <th colspan="2">PTO USE</th> </tr> </thead> <tbody> <tr> <td colspan="2">24. <input type="checkbox"/> Basic national fee</td> <td>\$300</td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2">25. <input type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article</td> <td>\$0</td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2">All other situations.....</td> <td>\$200</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">26. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)...</td> <td>\$0</td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2">Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority.....</td> <td>\$100</td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2">International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB.....</td> <td>\$400</td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2">All other situations.....</td> <td>\$500</td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2">TOTAL OF 24, 25 and 26 =</td> <td>\$</td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="6"> <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. </td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole)</td> <td colspan="3">RATE</td> </tr> <tr> <td>- 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250.00</td> <td>\$</td> <td>\$0.00</td> </tr> <tr> <td colspan="6">Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td colspan="3">RATE</td> </tr> <tr> <td>Total claims</td> <td>- 20 =</td> <td>0</td> <td>x \$50.00</td> <td>\$</td> <td>\$0.00</td> </tr> <tr> <td>Independent claims</td> <td>- 3 =</td> <td>0</td> <td>x \$200.00</td> <td>\$</td> <td>\$0.00</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIMS (if applicable)</td> <td><input type="checkbox"/> +</td> <td>\$360.00</td> <td>\$</td> <td>\$0.00</td> </tr> <tr> <td colspan="2"></td> <td colspan="3">TOTAL OF ABOVE CALCULATIONS =</td> <td>\$ \$0.00</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.</td> <td></td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="3">SUBTOTAL =</td> <td>\$ \$0.00</td> </tr> <tr> <td colspan="2">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(l)).</td> <td></td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="3">TOTAL NATIONAL FEE =</td> <td>\$ \$0.00</td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property</td> <td>+ \$</td> <td>\$</td> <td>\$0.00</td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="3">TOTAL FEES ENCLOSED =</td> <td>\$ \$0.00</td> </tr> <tr> <td colspan="3" rowspan="2"></td> <td>Amount to be</td> <td colspan="2">\$</td> </tr> <tr> <td>Amount to be</td> <td colspan="2">\$</td> </tr> </tbody> </table>						The following fees have been submitted:		CALCULATIONS		PTO USE		24. <input type="checkbox"/> Basic national fee		\$300	\$	\$0.00		25. <input type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article		\$0	\$	\$0.00		All other situations.....		\$200				26. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)...		\$0	\$	\$0.00		Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority.....		\$100	\$	\$0.00		International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB.....		\$400	\$	\$0.00		All other situations.....		\$500	\$	\$0.00		TOTAL OF 24, 25 and 26 =		\$	\$	\$0.00		<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). 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- a. A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. _____. A duplicate copy of this sheet is enclosed.
- d. Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Customer No. 23413

Attn: Victor E. Libert

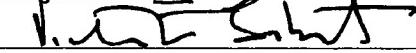
Cantor Colburn LLP

55 Griffin Road South

Bloomfield, CT 06002

Tel: (860) 286-2929

Fax: (860) 286-0115


SIGNATURE

Victor E. Libert

NAME

24,224

REGISTRATION NUMBER

March 9, 2006

DATE

CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)

Applicant(s): James Bayliss et al.

Docket No.

DNI-0025

Application No.
10/553,931Filing Date
10/20/2005Examiner
NYACustomer No.
23413Group Art Unit
NYA

Invention: TUBULAR SIGNAL TRANSMISSION DEVICE AND METHOD OF MANUFACTURE

I hereby certify that this **Information Disclosure Statement, as detailed below**
(Identify type of correspondence)

is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)] on
March 9, 2006

*(Date)***Michelle E. Fetzner***(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)***Note:** Each paper must have its own certificate of mailing.

1. Transmittal Letter to the DO/EO/US
2. Transmittal of Information Disclosure Statement (Under 37 CFR 1.97(b) or 1.97(c))
3. Information Disclosure Statement Under 37 CFR §§ 1.56, 1.97 and 1.98
4. Form PTO/SB/08a and PTO/SB/08B, Information Disclosure Statement by Applicant
5. One Foreign Patent Document
6. 7 Non-Patent Documents
7. PCT International Search Report and Written Opinion received in PCT/US04/13339
8. PCT International Preliminary Examination Report received in PCT/US04/13339
9. Return Receipt Postcard

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: James Bayliss et al.)
Serial No.: 10/553,931) Group Art Unit: NYA
Filing Date: 10/20/2005)) Examiner: NYA
For: TUBULAR SIGNAL TRANSMISSION DEVICE AND)
METHOD OF MANUFACTURE)

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.56, 1.97 AND 1.98

Dear Sir:

In compliance with the duty to disclose, submitted herewith are forms PTO/SB/08a and PTO/SB/08B listing publication(s) of which those persons designated by 37 CFR § 1.56 are believed to be aware. Copies of cited documents other than United States patents and published applications are enclosed.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or an admission that the information cited is, or is considered to be, material to patentability.

Respectfully submitted,

CANTOR COLBURN LLP

By: 
Victor E. Libert
Registration No. 24,224

Date: March 9, 2006
Customer No.: 23413
Telephone: (860) 286-2929

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Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/553,931
				Filing Date	10/20/2005
				First Named Inventor	James Bayliss
				Art Unit	NYA
				Examiner Name	NYA
Sheet	1	of	4	Attorney Docket Number	DNI-0025

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
/B.L./		US- 1,964,390		06-26-1934	J. Stuart, 2D	
		US- 2,416,639		02-25-1947	David E. Pearsall	
		US- 2,963,971		12-13-1960	C. F. Horne	
		US- 3,027,839		04-03-1962	A. J. Grandy et al.	
		US- 3,590,739		07-06-1971	Per-Anders Persson	
		US- 3,730,096		05-01-1973	Josef Prior	
		US- 4,220,087		09-02-1980	Posson	
		US- 4,244,900		01-13-1981	Heider	
		US- 4,288,262		09-08-1981	Flanagan et al.	
		US- 4,290,366		09-22-1981	Janoski	
		US- 4,328,753		05-11-1982	Kristensen et al.	
		US- 4,402,270		09-06-1983	McCaffrey	
		US- 4,493,261		01-15-1985	Simon et al.	
		US- 4,607,573		08-26-1986	Thureson et al.	
		US- 4,660,474		04-28-1987	Dias dos Santos	
		US- 4,699,059		10-13-1987	Kelly et al.	
		US- 4,756,250		07-12-1988	Dias dos Santos	
		US- 4,757,764		07-19-1988	Thureson et al.	
		US- 4,817,673		04-04-1989	Zogby et al.	
/B.L./		US- 4,838,165		06-13-1989	Gladden et al.	

FOREIGN PATENT DOCUMENTS

Examiner Signature	/Benjamin Lee/	Date Considered	01/16/2010
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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				First Named Inventor	James Bayliss
				Art Unit	NYA
				Examiner Name	NYA
Sheet	2	of	4	Attorney Docket Number	DNI-0025

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Examiner Initials	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known)			
/B.L.		US- 4,841,856		06-27-1989	Gisler et al.	
		US- 5,001,981		03-26-1991	Shaw	
		US- 5,009,163		04-23-1991	Robins et al.	
		US- 5,010,821		04-30-1991	Blain	
		US- 5,048,420		09-17-1991	Beck et al.	
		US- 5,101,729		04-07-1992	Noble et al.	
		US- 5,166,470		11-24-1992	Stewart	
		US- 5,208,419		05-04-1993	Greenhorn et al.	
		US- 5,212,341		05-18-1993	Osborne et al.	
		US- 5,243,913		09-14-1993	Brent et al.	
		US- 5,316,600		05-31-1994	Chan et al.	
		US- 5,317,974		06-07-1994	Stewart et al.	
		US- 5,351,618		10-04-1994	Brent et al.	
		US- 5,383,405		01-24-1995	Blain	
		US- 5,431,100		07-11-1995	Snyder	
		US- 5,435,249		07-25-1995	Brent et al.	
		US- 5,473,987		12-12-1995	Beck	
		US- 5,507,891		04-16-1996	Zeigler	
		US- 5,509,355		04-23-1996	Stewart et al.	
/B.L.		US- 5,518,807		05-21-1996	Chan et al.	

FOREIGN PATENT DOCUMENTS

Examiner Signature /Benjamin Lee/ Date Considered 01/16/2010

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Substitute for form 1449A/PTO				<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/553,931
				Filing Date	10/20/2005
				First Named Inventor	James Bayliss
				Art Unit	NYA
				Examiner Name	NYA
Sheet	3	of	4	Attorney Docket Number	
DNI-0025					

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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/553,931
Sheet	4	of	4	Filing Date	10/20/2005
				First Named Inventor	James Bayliss
				Art Unit	NYA
				Examiner Name	NYA
				Attorney Docket Number	DNI-0025

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
/B.L./		Sartomer Product Bulletin: SR-238, 1,6 Hexanediol Diacrylate, 2027 R. 12/98
/B.L./		Anthony P. Manzara, 3M Specialty Chemicals Division, "A New Cure System For Azido Polymers", Approved for public release April 1996, 8 pages.
/B.L./		http://www.chemicaland21.com/arokorhi/specialtychem/perchem/N-BUTYRYL%20CHL... , 4/15/2004, N-BUTYRYL CHLORIDE (BUTANOYL CHLORIDE), "n-BUTYRYL CHLORIDE", 2 pages.
/B.L./		http://search.chemexper.com/_KFPNKUMHFTNBQNKQNQNMPOLQOE_?for=ccd&sea... 4/15/2004, Poly(vinyl butyral), 1 page
/B.L./		Rob Hunter and Tony Manzara, 3M Performance Materials, "Interaction of Glycidyl Azide Polymer Plasticizer With Other Polymers", 8 pages, facsimile-transmitted April 26, 2002.
/B.L./		3M Industrial Products Division, "technical data Glycidyl Azide Polymer Polyol L-12369 (Experimental), issued December, 1991, 2 pages.
/B.L./		3M Industrial Products Division, "technical data Glycidyl Azide Polymer Polyol L-12616 (Experimental), issued April, 1992, 2 pages.
/B.L./		PCT International Search Report and Written Opinion received in corresponding PCT Application No. PCT/US04/13339, dated 06 January 2005, 9 pages.
/B.L./		PCT International Preliminary Examination Report on Patentability received in corresponding PCT Application No. PCT/US04/13339, dated 04 November 2005, 5 pages.

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